

PTO FORM 4/92

Page 1 of 3

**FORM PTO - 1449
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION
DISCLOSURE STATEMENT****ATTY DOCKET. 19789-13 DIV**
APPLICANT van Ooij, et al.
FILING DATE August 8, 2003
FOR Silane Coatings f r Bonding
Rubber to Metal**SERIAL NO.**
10/637,158
GROUP
1762**UNITED STATES LETTERS PATENT**

Exr. Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
ECC	2 1 1 0 4 6 1	07/26/94	Canada	—	—
	0 4 3 5 7 8 1 A2	07/03/91	EPO	—	—
	0 5 3 3 6 0 6 A1	03/24/93	EPO	—	—
	0 5 7 9 2 5 3 B1	0/19/94	EPO	—	—
	3 4 4 3 9 2 6A1	06/12/86	Germany	—	—
	53 3 0 7 6	02/02/78	Japan	—	—
	56 1 6 1 4 7 5	12/11/81	Japan	—	—
	58 5 2 0 3 6	11/19/83	Japan	—	—
	60 2 0 8 4 8 0	10/21/85	Japan	—	—
	60 8 1 2 5 6	05/09/85	Japan	—	—
	60 2 1 3 9 0 2	10/26/85	Japan	—	—
	62 7 5 3 8	01/14/87	Japan	—	—
	62 5 7 4 7 0	03/13/87	Japan	—	—
	63 3 4 7 9 3	07/12/88	Japan	—	—
	63 9 7 2 6 6	04/27/88	Japan	—	—
	63 9 7 2 6 7	04/27/88	Japan	—	—
	5 3 3 2 7 5	05/19/93	Japan	—	—
	6 1 8 4 7 9 2	07/05/94	Japan	—	—
	WO 98 3 0 7 3 5	07/16/98	PCT	—	—
	WO 99 2 0 6 8 2	04/29/99	PCT	—	—
	WO 99 2 0 7 0 5	04/29/99	PCT	—	—
	WO 99 6 7 4 4 4	29 Dec 1999	PCT	—	—
ECC	WO 00 3 8 8 4 4	6 July 2000	PCT	—	—

OTHER ART (INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)

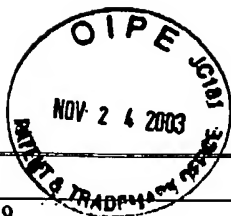
ECC	Buchwalter, L.P., et al. Adhesion of polyimides to ceramics: Effects of aminopropyltriethoxysilane and temperature and humidity exposure on adhesion, <i>J. Adhesions Sci. Technol.</i> , Vol. 5, No. 4, pp. 333-343 (1991)
ECC	Cruse, R. W., et al., Effect of Polysulfidic Silane Sulfur on Rolling Resistance, <i>Rubber & Plastic News</i> , pp. 14-17 (April 21, 1997)
ECC	Henriksen, P.N., et al. Inelastic electron tunneling spectroscopic studies of alkoxysilanes adsorbed on alumina, <i>J. Adhesion Sci. Technol.</i> , Vol. 5, No. 4, pp.321-331 (1991)

EXAMINER: ERMA CAMERON

JE CONSIDERED

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800	Homstrom, S.E., et al., Paint Adhesion and Corrosion Performance of Chromium-Free Pretreatment of 55% Al-Zn-coated Steel, <i>J. Adhesion Sci. Technol.</i> Vol. 10, No. 9, pps. 883-904 (1996)
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	Luginsland, H. D., Reactivity of the Sulfur Functions of the Disulfane Silane TESPD and the Tetrasulfane Silane TESPT, presented at a meeting of the Rubber Division, American Chemical Society, Chicago, Illinois (April 13-16, 1999)
	Plueddemann, Edwin P., Silane primers for epoxy adhesives, <i>J. Adhesion Sci. Technol.</i> , Vol. 2, No. 3, pp. 179-188 (1988)
	Plueddemann, Edwin P., Reminiscing on Silane Coupling Agents, <i>J. Adhesion Sci. Technol.</i> Vol. 5, No. 4, pp. 261-277 (1991)
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	Sabata, A., et al., Trends toward a better understanding of the interface in painted metals, <i>Trends in Corrosion Research</i> , 1, pp. 181-193 (1993)
	Sabata, A., et al., The interphase in painted metals pretreated by functional silanes, <i>J. Adhesion Sci. Technol.</i> , Vol. 7, No. 11, pp. 1153-1170 (1993)
	Sabata, A. Et al., TOFSIMS Studies of Cleaning Procedures and Silane Surface Treatments of Steels, <i>Journal of Testing and Evaluation</i> , JTRVA, Vol. 23, No. 2, pp. 119-125 (March 1995)
	van Ooij, W. J., et al. Characterization of Films of Organofunctional Silanes by ToF-SIMS, <i>Surface and Interface Analysis</i> , Vol. 20, pp.475-484 (1993)
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	van Ooij, W. J., et al. Novel Silane-Based Pretreatments of Metals to Replace Chromate and Phosphate Treatment, <i>2nd Annual Advanced Techniques for Replacing Chromium: An Information Exchange</i> , prepared by David S. Vizslay, Concurrent Technologies Corp. NDCEE, Seven Springs Mountain Resort, Champion, PA (November 7-8, 1995) pp. 287-310
	van Ooij, W. J., et al. On the Use, Characterization and Performance of Silane Coupling Agents Between Organic Coatings and Metallic or Ceramic Substrates, <i>American Institute of Physics</i> , pp. 305-321 (1996)
	van Ooij, W. J., et al., Silane-Based Pretreatments of Al and its Alloys as Chromate Alternatives, <i>Aluminium Surface Science Technology</i> , "Elzenveld" Antwerp-Belgium, (May 12-15, 1997)
	van Ooij, W. J. et al., Silane Coupling Agent Treatments of Metals for Corrosion Protection, Presented at the Fourth Interantional Forum and business Development Conference on Surface Modification, Couplants and Adhesion Promoters, Adhesion Coupling Agent Technology 97, Boston, MA (September 22-24, 1997)
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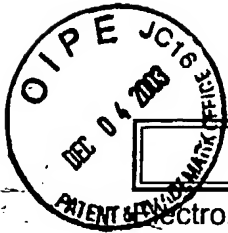
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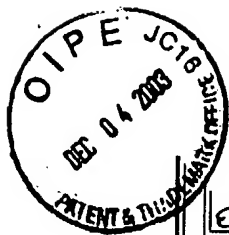
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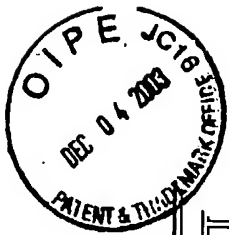
ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

Title of Invention	Silane Coatings for Bonding Rubber to Metals																																																																																
<p>Application Number: 10/637158 Confirmation Number: 2918 First Named Applicant: Wim van Ooij Attorney Docket Number: 19789-13 DIV Art Unit: 1762 Examiner: Erma Cameron Search string: (2751314 or 3022196 or 3246671 or 3476826 or 3816152 or 3842111 or 3873334 or 3879206 or 3960800 or 4000347 or 4015044 or 4059473 or 4064313 or 4151157 or 4152347 or 4179537 or 4210459 or 4231910 or 4243718 or 4315970 or 4401500 or 4409266 or 4441946 or 4457970 or 4461867 or 4489191 or 4534815 or 4618389 or 4681636 or 4719262 or 4863794 or 5051129 or 5073195 or 5073456 or 5108793 or 5203975 or 5217751 or 5221371 or 5292549 or 5322713 or 5326594 or RE34675 or 5363994 or 5389405 or 5393353 or 5405985 or 5412011 or 5433976 or 5455080 or 5466848).pn.</p>																																																																																	
<h3>US Patent Documents</h3> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>Ex</td><td>1</td><td>2751314</td><td>1954-11-03</td><td>Keil</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>2</td><td>3022196</td><td>1957-12-04</td><td>Jenkins et al.</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>3</td><td>3246671</td><td>1966-04-19</td><td>Stein et al.</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>4</td><td>3476826</td><td>1969-11-04</td><td>Millen</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>5</td><td>3816152</td><td>1974-06-11</td><td>Yates</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>6</td><td>3842111</td><td>1974-10-15</td><td>Meyer-Simon et al.</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>7</td><td>3873334</td><td>1975-03-25</td><td>Lee et al.</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>8</td><td>3879206</td><td>1975-04-22</td><td>Nestler et al.</td><td></td><td>—</td><td>—</td></tr><tr><td>Ex</td><td>9</td><td>3960800</td><td>1976-06-01</td><td>Kohl, Jr.</td><td></td><td>—</td><td>—</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	Ex	1	2751314	1954-11-03	Keil		—	—	Ex	2	3022196	1957-12-04	Jenkins et al.		—	—	Ex	3	3246671	1966-04-19	Stein et al.		—	—	Ex	4	3476826	1969-11-04	Millen		—	—	Ex	5	3816152	1974-06-11	Yates		—	—	Ex	6	3842111	1974-10-15	Meyer-Simon et al.		—	—	Ex	7	3873334	1975-03-25	Lee et al.		—	—	Ex	8	3879206	1975-04-22	Nestler et al.		—	—	Ex	9	3960800	1976-06-01	Kohl, Jr.		—	—
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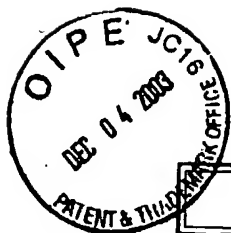
10	4000347	1976-12-28	Ranney et al.
11	4015044	1977-03-29	Ranney et al.
12	4059473	1977-11-22	Okami
13	4064313	1977-12-20	Takiguchi et al.
14	4151157	1979-04-24	Williams et al.
15	4152347	1979-05-01	Pietka et al.
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18	4231910	1980-11-04	Plueddemann
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21	4401500	1983-08-30	Hamada et al.
22	4409266	1983-10-11	Wieczorrek et al.
23	4441946	1984-04-10	Sharma
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25	4461867	1984-07-24	Surprenant
26	4489191	1984-12-18	Chung, deceased
27	4534815	1985-08-13	Hamada et al.
28	4618389	1986-10-21	Agodoa
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30	4719262	1988-01-12	Plueddemann
31	4863794	1989-09-05	Fujii et al.
32	5051129	1991-09-24	Cuthbert et al.
33	5073195	1991-12-17	Cuthbert et al.
34	5073456	1991-12-17	Palladino
35	5108793	1992-04-28	van Ooij et al.
36	5203975	1993-04-20	Richardson
37	5217751	1993-06-08	King et al.
38	5221371	1993-06-22	Miller
39	5292549	1994-03-08	van Ooij et al.
40	5322713	1994-06-21	van Ooij et al.
41	5326594	1994-07-05	Sabata et al.
42	RE34675	1994-07-26	Plueddemann deceased
43	5363994	1994-11-15	Angeline
44	5389405	1995-02-14	Purnell et al.
45	5393353	1995-02-28	Bishop
46	5405985	1995-04-11	Parker et al.



ea	47	5412011	1995-05-02	Morris et al.	—	—
ea	48	5433976	1995-07-18	van Ooij et al.	—	—
ea	49	5455080	1995-10-03	van Ooij et al.	—	—
ea	50	5466848	1995-11-14	Childress	—	—

Signature

Examiner Name	Date
ERMA CAMERON	8/17/04

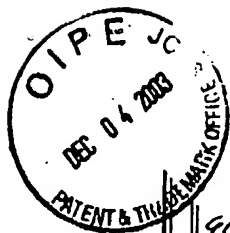


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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
EC	1	5468893	1995-11-21	Parker et al.		—	—
	2	5478655	1995-12-26	Sabata et al.		—	—
	3	5498481	1996-03-12	van Ooij		—	—
	4	5520769	1996-05-28	Crook et al.		—	—
	5	5539031	1996-07-23	van Ooij		—	—
	6	5603818	1997-02-18	Brent et al.		—	—
	7	5606884	1997-03-04	Pettersson et al.		—	—
	8	5622782	1997-04-22	Poutasse, III et al.		—	—
	9	5633038	1997-05-27	Ruschau		—	—
	10	5639555	1997-06-17	Bishop		—	—
	11	5660884	1997-08-26	Crook et al.		—	—
	12	5700523	1997-12-23	Petrole et al.		—	—
	13	5750197	1998-05-12	van Ooij et al.		—	—
EC	14	5759629	1998-06-02	van Ooij et al.		—	—



Ex	15	5789080	1998-08-04	Grimberg et al.	—	—
Ex	16	5851371	1998-12-22	Steinbrecher et al.	—	—
Ex	17	5907015	1999-05-25	Sexsmith	—	—
Ex	18	6162547	2000-12-19	van Ooij et al.	—	—
Ex	19	6057040	2000-05-02	Hage	—	—
Ex	20	6071566	2000-06-06	Brown et al.	—	—
Ex	21	6132808	2000-10-17	Brown et al.	—	—
Ex	22	6409874	2002-06-25	Van Der Aar et al.	—	—

Signature

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